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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/552,875	10/13/2005	Niki S. Woodhead	20410/0203396-US0 9177	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)
		10/552,875	WOODHEAD ET AL.
	Office Action Summary	Examiner	Art Unit
	•	Ernesto Garcia	3679
	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the	correspondence address
A SH WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANS IN THE MAIL	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status			
2a) <u></u>	·	action is non-final.	
Dispositi	ion of Claims		•
5)□ 6)⊠ 7)□	Claim(s) 1-12 is/are pending in the application. 4a) Of the above claim(s) 5,7,11 and 12 is/are v Claim(s) is/are allowed. Claim(s) 1-4,6 and 8-10 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or		•
Applicati	ion Papers		
10)⊠	The specification is objected to by the Examiner The drawing(s) filed on <u>13 October 2005</u> is/are: Applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction The oath or declaration is objected to by the Example 1.	a) accepted or b) ⊠objected or b) objected or b) objected or abeyance. See on is required if the drawing(s) is objected or is required if the drawing(s) is objected or is required if the drawing(s) is objected or b).	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority ι	ınder 35 U.S.C. § 119		
a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priorical application from the International Bureausee the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive (PCT Rule 17.2(a)).	ion No ed in this National Stage
2) 🔲 Notic 3) 🔯 Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date <u>10/13/05</u> .	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate

DETAILED ACTION

Election of Species

This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

I. Figure 4

II. Figure 6

Note that Figures 1-3 and 5 are prior art.

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Application/Control Number: 10/552,875

Art Unit: 3679

The claims are deemed to correspond to the species listed above in the following manner:

Claims 4, 6, 9, and 10 correspond to species I. Claims 5, 7, 11, and 12 correspond to species II.

The following claim(s) are generic: claims 1-3 and 8.

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons:

an assessment of the prior art with respect to the independent claims provides no unity of invention since the "special technical features", i.e., "a band of resilient material having corrugated protrusions" and "a guide portion contiguous with, and extending axially from the band" common in each of the species is known from Blaurock et al., 3,838,928. Applicant should note that the lack of unity is based on a *posteriori* and the special technical features, common to all species, do not define a contribution over the prior.

During a telephone conversation with Mr. Bryan Branch on April 24, 2007 a provisional election was made with oral traverse to prosecute the invention of species I, claims 1 and 5. Affirmation of this election must be made by applicant in replying to this Office action. Claims 5, 7, 11, and 12 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention. Note that claims 5, 7, 11, and 12 are directed toward species II since both the ring and the shaft are connected before they are inserted in the housing and the protrusions of the ring are protruding radially inwardly from the band.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim

remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Drawings

Figures 1-3 and 5 should be designated by a legend such as -- Prior Art-because only that which is old is illustrated. See MPEP § 608.02(g).

The drawings are objected to because the bore 4 should not be hatched in Figures 1-6. Further, the use of solid shading for the tolerance ring 1 is not permitted. The interior of the tolerance ring 1 should not be hatched in Figures 2-4. The tolerance ring in Figures 5 and 6 should include a horizontal line at both free ends of the ring to depict a ring. Currently, it appears to show two brackets mounted on the shaft 18. One of the reference characters "20" in Figure 5 should be deleted since a bore only has one edge on a side. Reference character 15b should be deleted since reference character 15a is an annular guide portion and not two guide portions to be designated as 15a and 15b. The same applies to the guide surface 24b and should be deleted.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended". If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the examiner does not accept the changes, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

Claim 4 is objected to because of the following informalities:

regarding claim 4, "A" in line 1 should be --a--. Appropriate correction is required. For purposes of examining the instant invention, the examiner has assumed these corrections have been made.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-4, 6, and 8-10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 1, the recitation ", and" in line 6 is tending to define the free end of the guide being wider "and" narrower simultaneously. This is improper since both conditions cannot occur at the same instance. Each condition can only occur in the alternative.

Regarding claims 2-4, 6, and 8-10, these claims depend from claim 1 and therefore are indefinite.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4, 6, and 8-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Blaurock et al., 3,838,928.

Art Unit: 3679

Regarding claim 1, Blaurock et al. disclose, in Figure 7, a tolerance ring comprising a band 142 of resilient material and a guide portion 140. The band has corrugated protrusions 142 extending radially inwards towards the axis of the band 142. The guide portion 140 is contiguous with and extends axially from the band 142. The guide portion 140 comprises at least one guide surface inclined relative to the axis of the band 142. A free end of the guide portion 140 is wider than the opening e of the band 142 when the corrugated protrusions 142 extend radially outwards.

Regarding claim 2, the angle of inclination of the guide surface relative to the axis is constant along the length of the guide surface.

Regarding claims 3 and 8, the guide portion **140** extends from the whole circumference of the band **142**.

Regarding claim 4, Blaurock et al. disclose, in Figure 7, an apparatus comprising a housing 126, a shaft 128, and a tolerance ring 124. The housing 126 has a bore 132. The ring 124 comprises a band 142 of resilient material and a guide portion 140 (see marked-up attachment). The band has corrugated protrusions 142 extending radially inwards towards the axis of the band 142. The guide portion 140 is contiguous with and extends axially from the band 142. The guide portion 140 comprises at least one guide surface inclined relative to the axis of the band 142. A free end of the guide portion 140 is wider than the opening e of the band 142 when the corrugated protrusions 142

extend radially outwards. The shaft 128 is received in the band 142 and the protrusions

engage the wall of the bore.

Regarding claims 6, 9, and 10, at the outset, it should be noted that in method

claims, it is the patentability of the method steps that is to be determined and not the

recited structure. Structure not affected in the manipulative sense is given little

patentable weight. Accordingly, Blaurock et al. disclose the method comprising:

inserting a tolerance ring 124 in a bore 132 in a housing 126;

engaging the wall of the bore 132 with radially outward protrusions 142 of the

tolerance ring 124;

inserting an end of a shaft 128 into a guide portion 140 of the tolerance ring 124;

and,

moving the shaft 128 along the axis of band into the band so that the band

engages the shaft 128.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Ernesto Garcia whose telephone number is 571-272-

7083. The examiner can normally be reached from 9:30AM-6:00PM. The fax phone

number for the organization where this application or proceeding is assigned is 571-

273-8300.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel P. Stodola can be reached at 571-272-7087.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

E.G.

April 29, 2007

DANIEL P. STODOLA SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3800

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